

Mountain Creek Dam and Mountain Creek Lake

OWNER

Dallas Power and Light Company.

ENGINEER (Design)

Phoenix Engineering Corporation. (Texas Construction Company on drawings)
Floyd & Lockridge Consulting Engineers.

LOCATION

On Mountain Creek in Dallas County, 4 miles southeast of Grand Prairie.

DRAINAGE AREA

295 square miles.

DAM

Type	Earthfill
Length	8,200 ft
Maximum height	47 ft
Top width	16 ft

SPILLWAY

Type	Concrete ogee
Crest elevation	431.0 ft above msl
Crest length (net)	204 ft
Control	6 tainter gates, each 34 by 27 ft

OUTLET WORKS

Water is circulated from lake to powerplant and returned to the lake.

POWER GENERATION FEATURES

Number of units	6
Capacity	928,000 kw

STATE AUTHORIZATION

Permit No. 1167 (Application No. 1243, November 24, 1930) issued to E. S. Heyser on October 20, 1931, and transferred to Dallas Power and Light Company authorizes the construction of a dam to create a reservoir of 40,000 acre-feet capacity with annual use of 15,000 acre-feet of water for a steam-electric generating plant.

RESERVOIR DATA (Capacities based on sediment surveys made in 1946, 1952, and 1963)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	467.0	—	—
Top of gates	458.0*	25,720	3,050
Top of conservation storage	457.0	22,840	2,710

*Gate height increased from 457 to 458 feet above mean sea level in 1953.

GENERAL

Construction started	1929
Dam completed	December 1936
Impoundment of water began	March 1937
Power generation began	June 1938
General contractor	Texas Construction Company
Estimated cost of the dam	\$940,000

